

# **BROADBAND DEPLOYMENT: CASE OF LITHUANIA**

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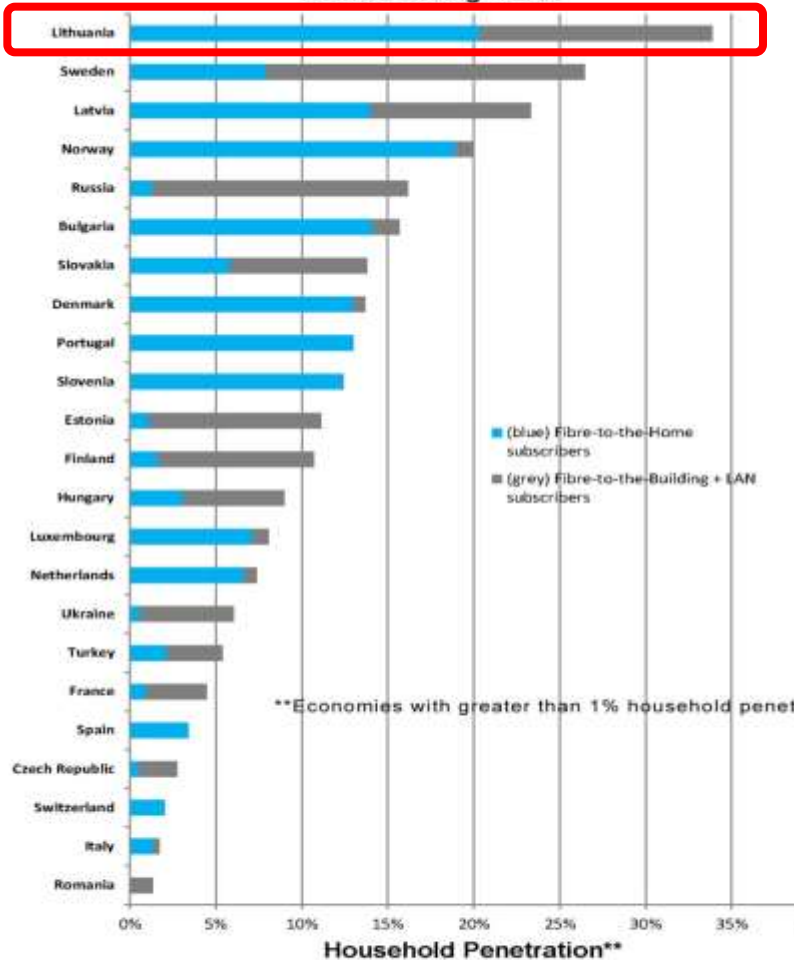
***Communications Regulatory Authority of the Republic of Lithuania (RRT)***

***20 May, 2014***

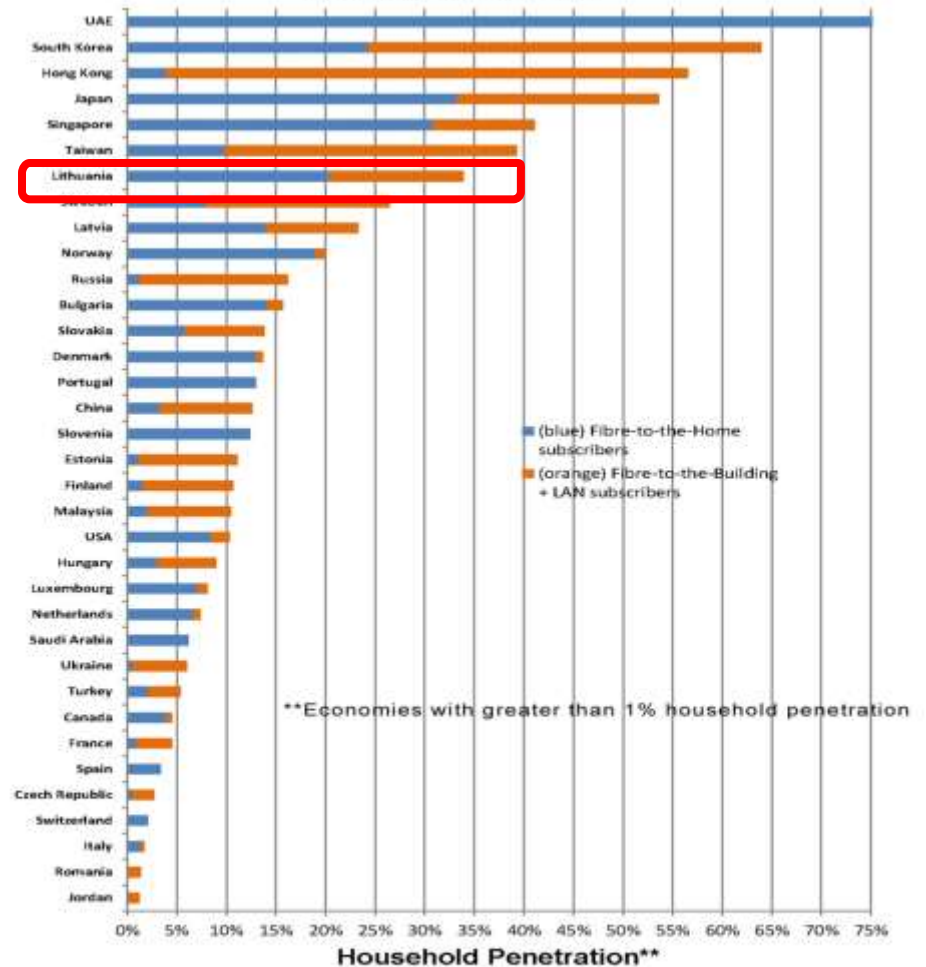
***Chisinau***

# LT today: Highest penetration of FTTH/FTTB

Economies\* with the Highest Penetration of Fibre-to-the-Home/Building + LAN



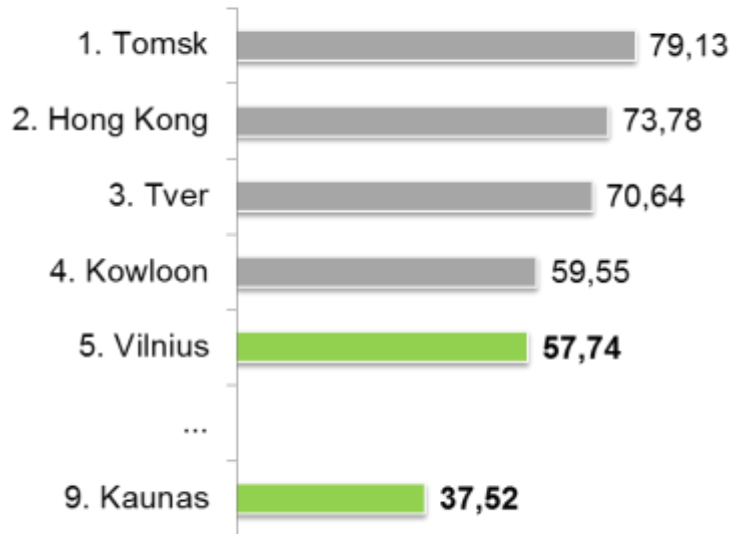
Economies\* with the Highest Penetration of Fibre-to-the-Home/Building + LAN



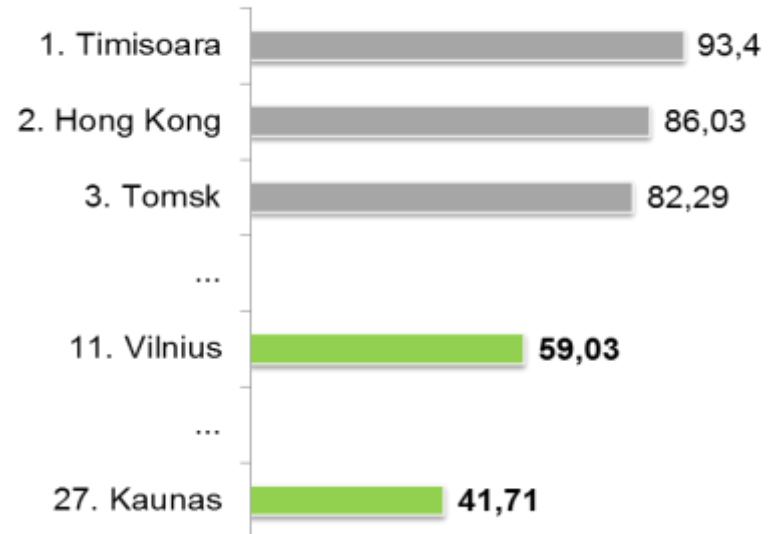
# LT today: Highest speeds

Vilnius and Kaunas – among cities with the fastest data upload and download rates (May 2014)

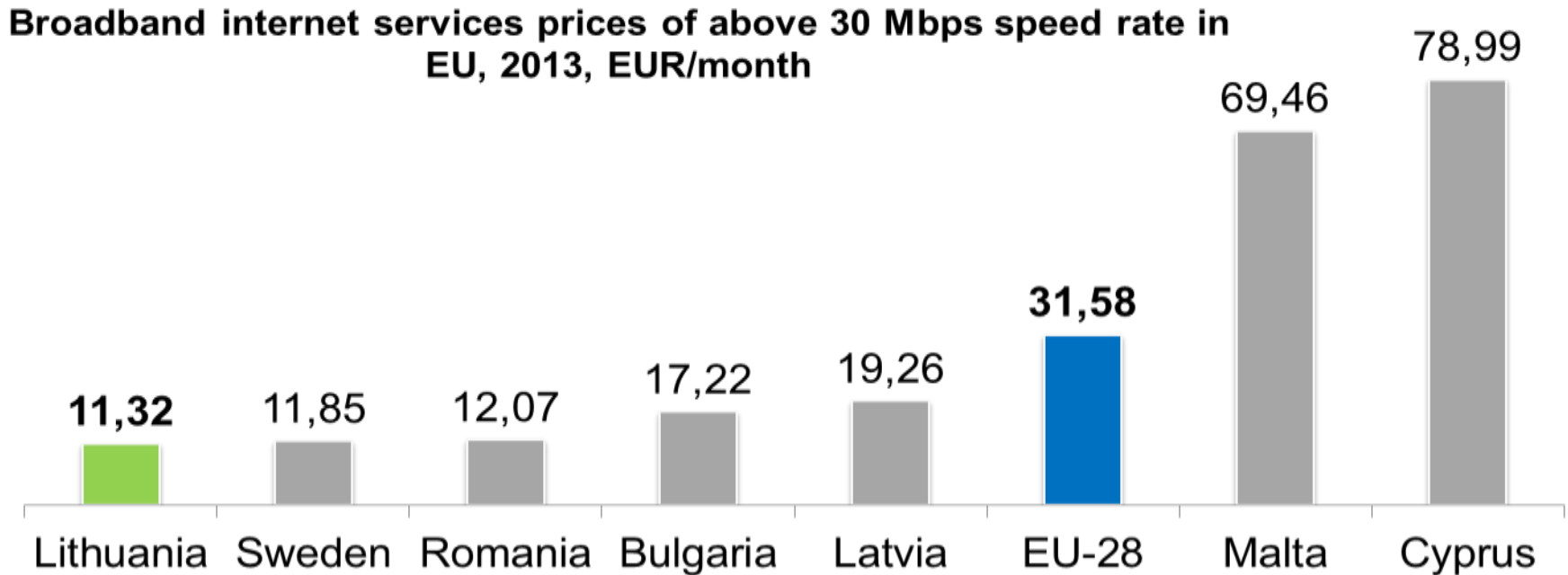
**Data upload rate, Mbps**



**Data download rate, Mbps**



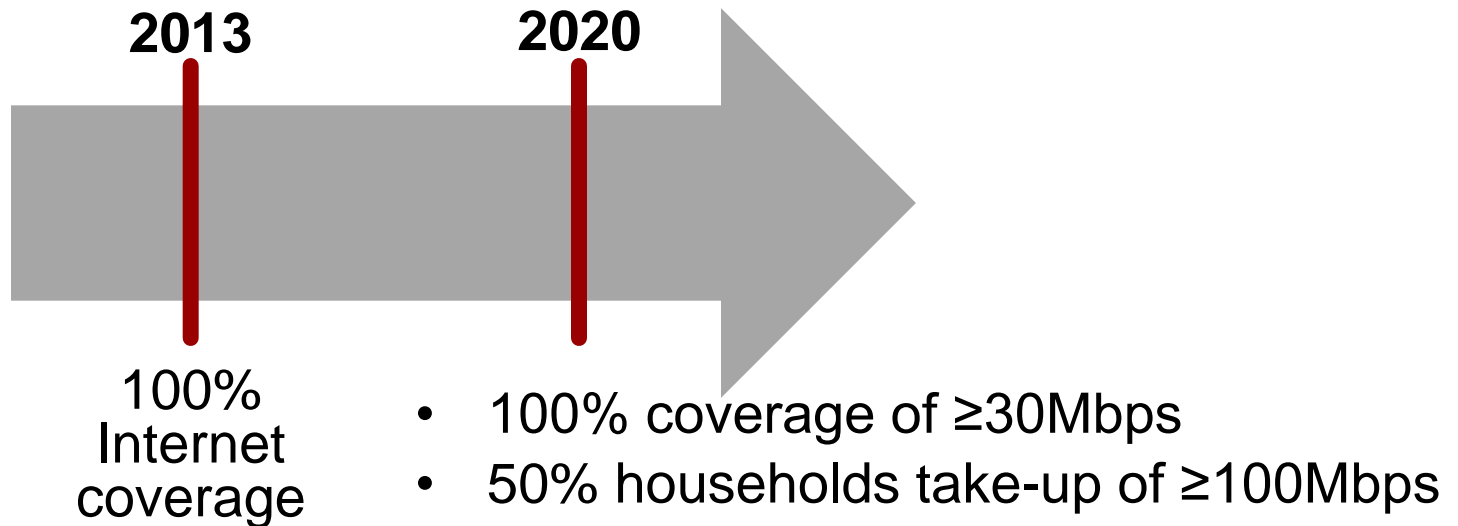
# LT today: lowest prices in EU



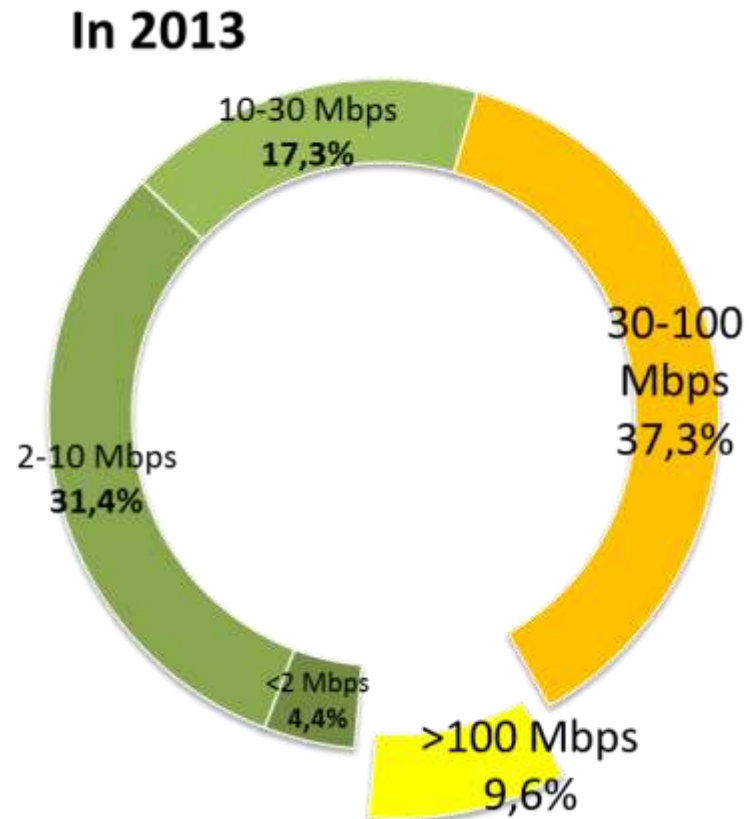
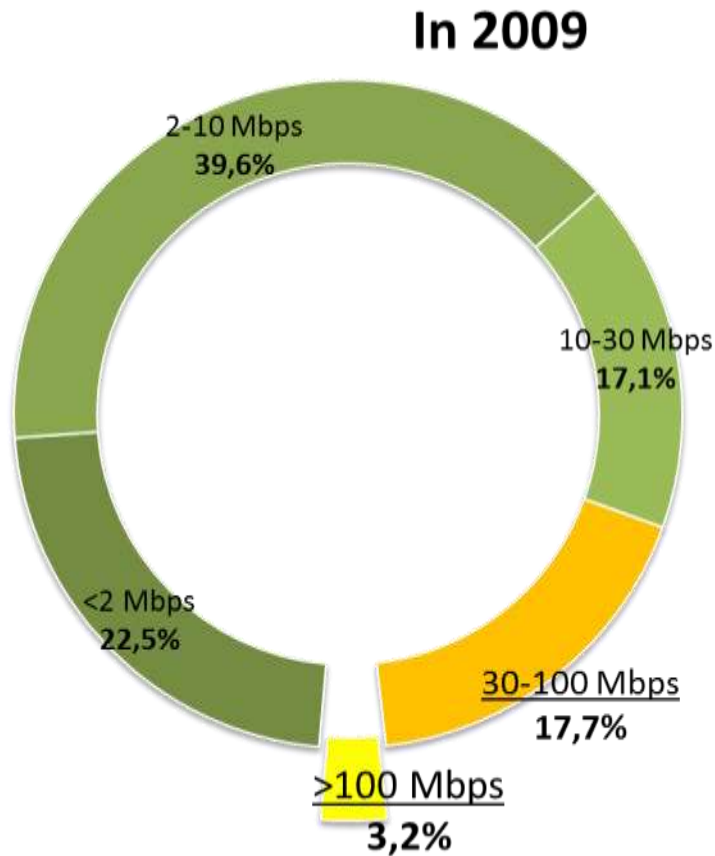
# EU goals

Digital agenda ambitions –

Europe needs achieve:



# LT today: high speed internet usage



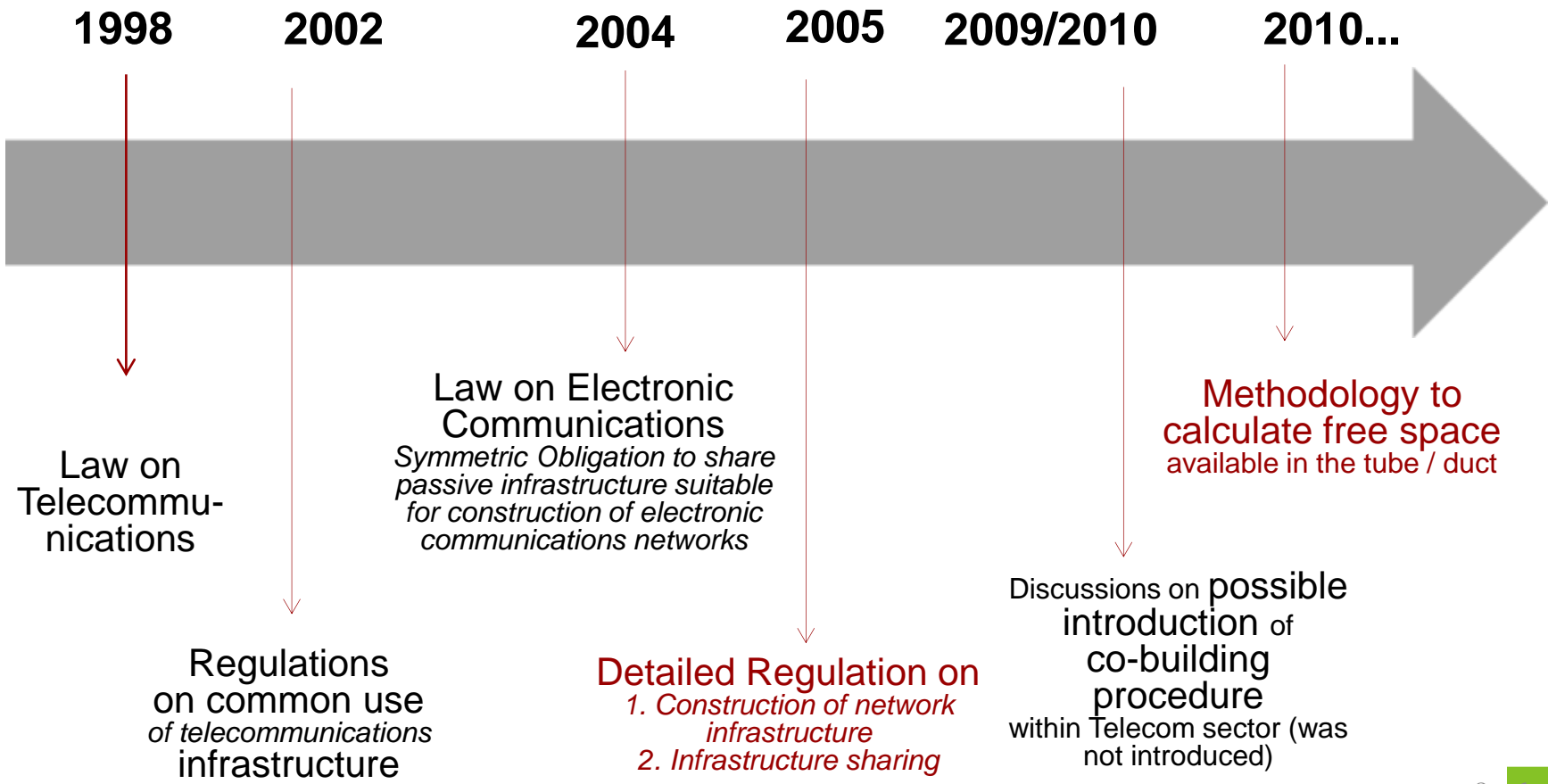
# ■ ■ Background of fiber development in LT ■ ■

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## 4 main reasons:

- 1. **Shared use** of infrastructure.
- 2. **Cable TV operators** – the first to benefit from open infrastructure.
- 3. **Late entrance of incumbent** operator into **optic fibre** market.
- 4. Backbone development (RAIN project)

# Development: 1. Shared use of infrastructure





# Development: 2. Cable TV operators benefit from open infrastructure



TV broadcasting

Internet provision



Joint decision: **invest** into **upgrade** and **deployment** of their own infrastructure - **optic fibre/ FTTx**



Symmetric obligation: **decrease** in **roll-out costs**



**Low-cost access to the ducts** vs. relatively **expensive LLU** products



# Development: 3. Late entrance of incumbent operator into optic fibre market

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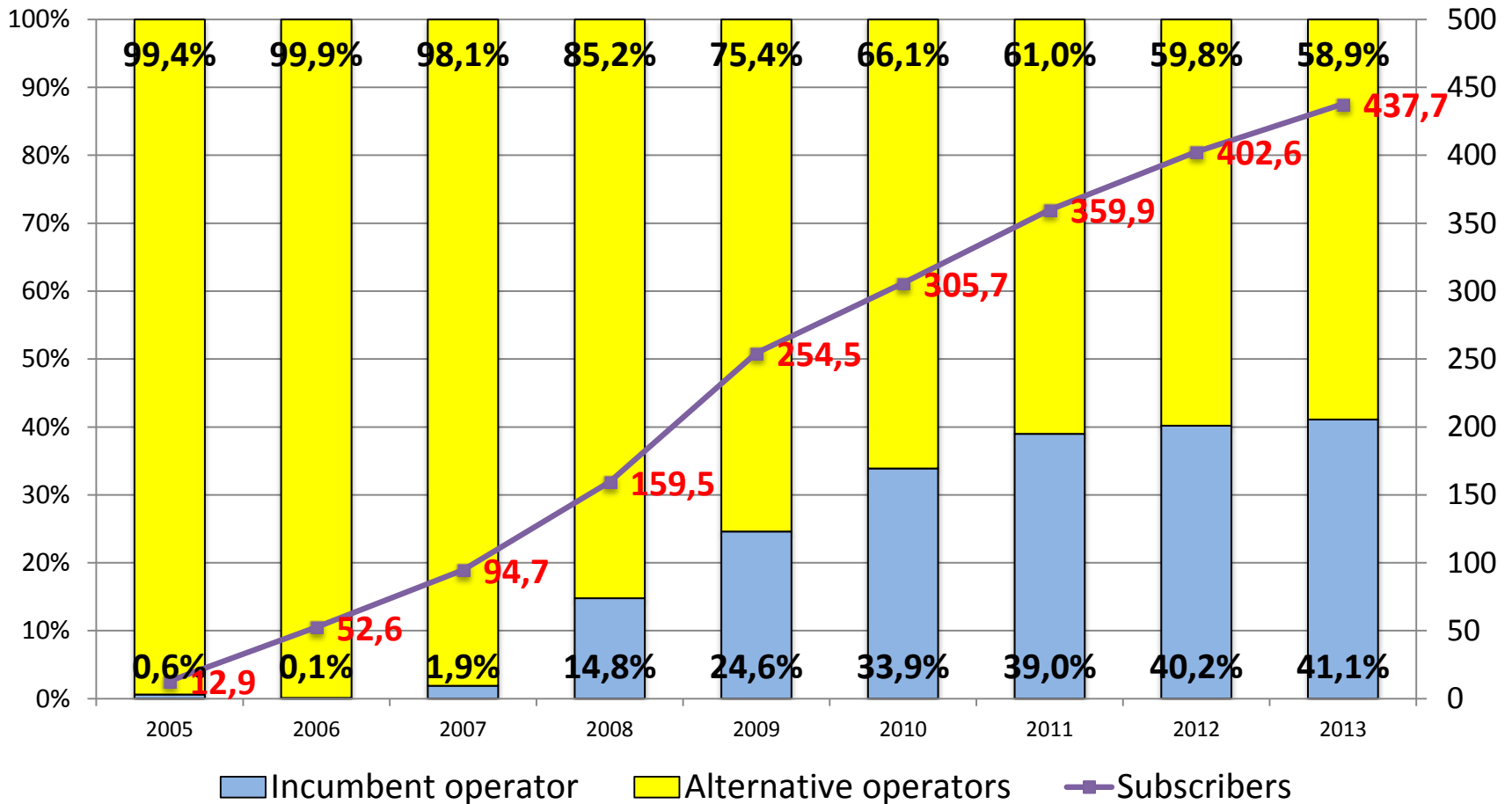
- Investments of incumbent into optic fibre only since 2007.
- Incumbent started to restrict access to its infrastructure.

**Dispute resolutions:** between cable TV operators and incumbent operator (in 2002 first dispute on fees for the use of telecommunications equipment).

- RRT role:

**Market analysis:** strengthened symmetric regulation and imposed obligations on SMP operator for duct access (access, non-discrimination, transparency, price control and cost accounting, and accounting separation).

# Result: infrastructure competition



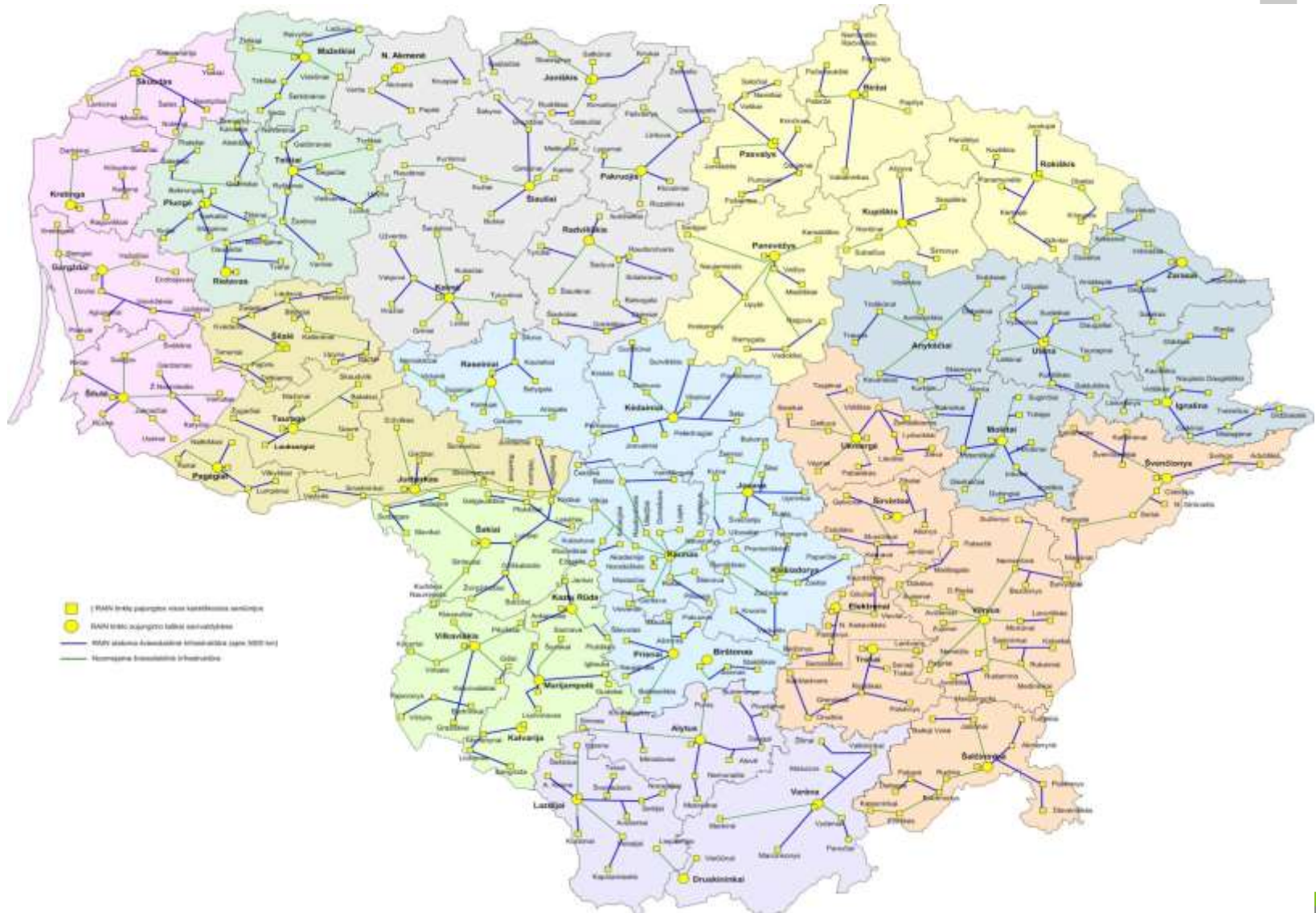
## Development: 4. Backbone

- **RAIN projects:** eliminate “digital divide” between rural and urban areas

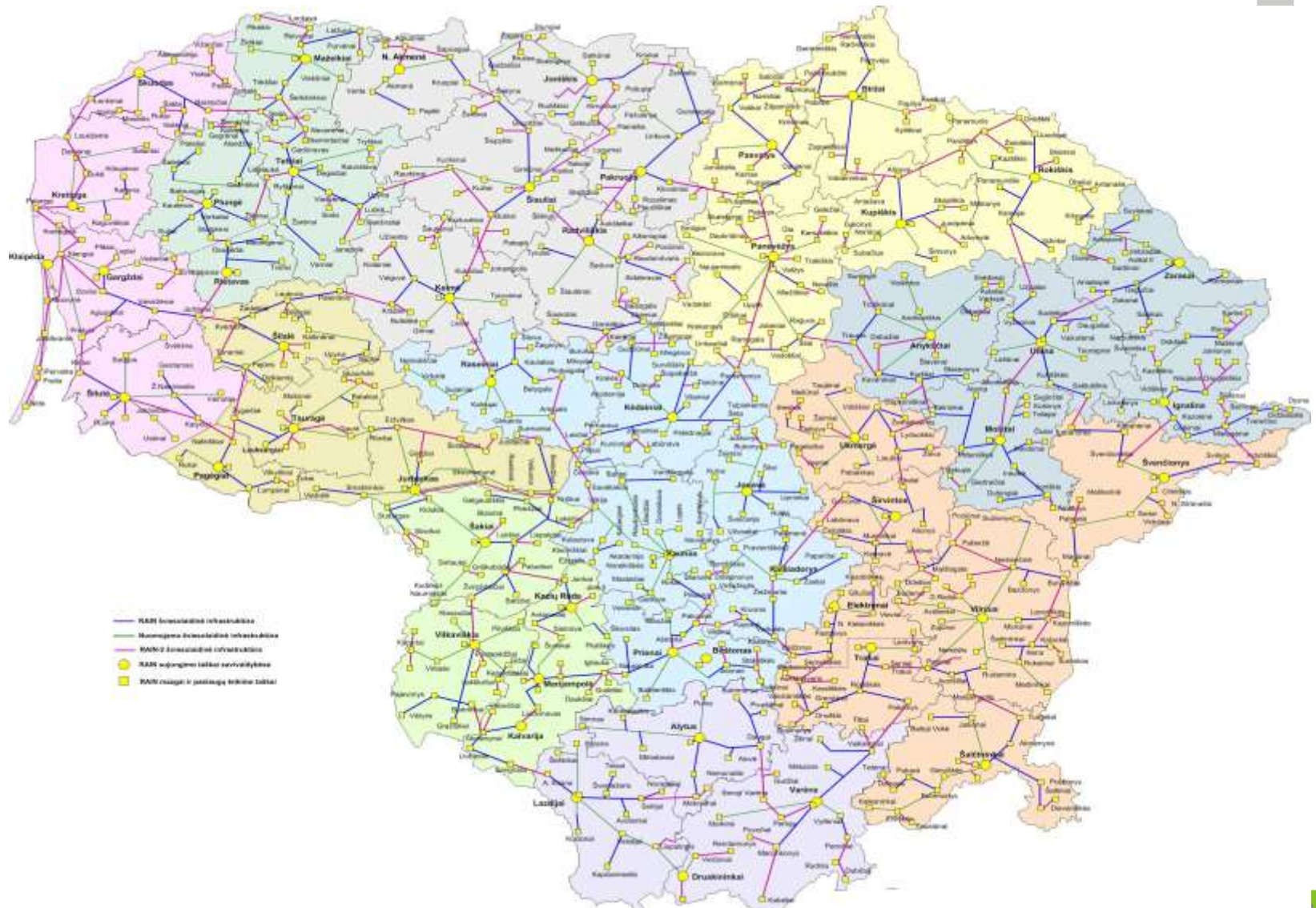
Develop **broadband** Internet via connected “**backbone**” **networks** in **rural areas** where infrastructure is absent or insufficient

- RAIN (2005-2008): 3.357 km
- RAIN-2 (2009-2013): 4.915 km
- PRIP (2012 - )

# RAIN-1 network

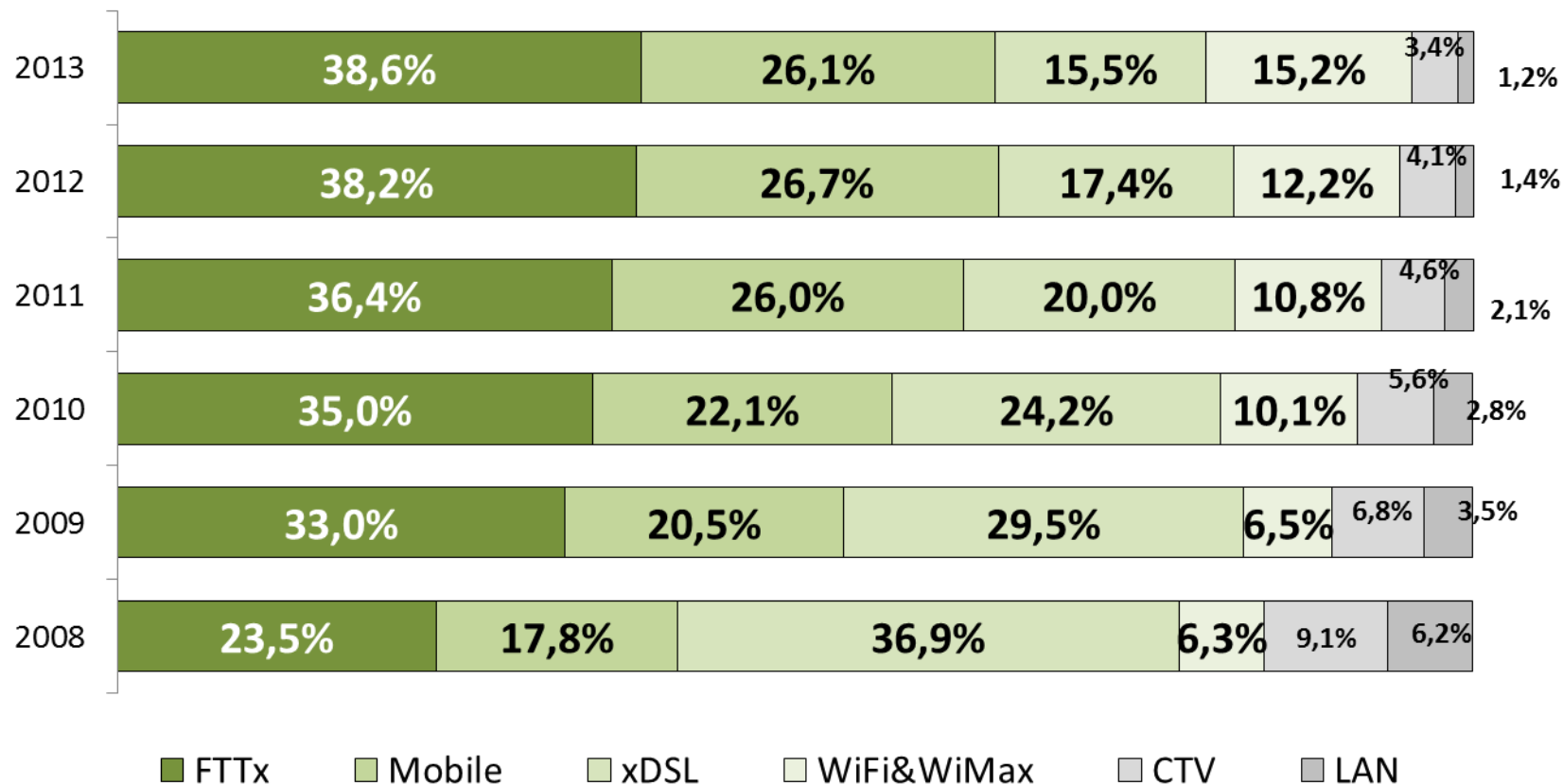


# RAIN-2 network



# Result: infrastructure competition

## Subscribers by BB technology



# LT: Regulator's role in the nearest future

- **RRT:** Maintain duct sharing system open
  - regulations
  - dispute resolution amongst undertakings
  - imposing specific obligations on SMP operators
- **RRT:** Find best solutions for alternative operators to roll out optic fibre:
  - online infrastructure map – RRT as a mediator between municipalities and operators



# Infrastructure map

## Project purpose: provide information for operators

- Information about existing electronic communication networks infrastructure in municipality
- Information about prospects of building electronic communication networks


Why Google maps is not enough?



Stages:

1. Vilnius
2. Klaipėda
3. Kaunas
4. Other municipalities

[RKK map](#)



FTTH is not a goal in itself but a **MEANS** to **ENSURE** infrastructure-based **COMPETITION**.



# Thank You! Questions?



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